

gene	size cDNA unit CT	method for CT	size	direction	oligonucleotide sequence 5' to 3'	gene acc. no.
GAH11 CT	496 442	enzyme Hpa II	20	sense	GGTGAAGGTCGGAGTCAACG	J04038
IL-2 CT	149 178	Insert DNA	20	antisense	CAAAGTTGTCATGATGACC	
IL-4 CT	227 159	primer deletion	20	sense	CCTCTGGAGGAAGTGTAAA	K02055
IL-7 CT	515 418	4-primer	21	antisense	ATGGTTGCTGTCTCATCAGC	M23442
IL-8 CT	271 212	double sense	22	sense	TTCTACAGCCACCATGAGAAG	
IL-10 CT	617 513	enzyme Ssp I	25	antisense	CAGCTCGAACAACCTTTGAATAT	J04136
IL-15 CT	409 339	enzyme BstBI	22	sense	TTTAGGTATATCTTTGGAGTTCTC	M25932
IL-17 CT	471 116	enzyme EcoO109 I	18	antisense	TTGTCTCTTTAGTCCCATCAA	X74437
IL-18 CT	369 267	enzyme Ava II	20	sense	TCTCTGGCAGCCTTCCT	X91211
IL-19 CT	431 358	enzyme Dde I	17	antisense	AATCTCAGCCTCTTCAAAACTT	U32559
IL-20 CT	321 225	4-primer	17	sense	GCGTGGAGCAGGTGAAG	M31951
IL-21 CT	246 200	insert DNA	24	antisense	AAGCCAGAGACAAGATA	M28079
IL-22 CT	510 422	enzyme Alu I	18	sense	CCGTGGCTTTGAGTAATGAG	U11521
IL-23 CT	529 459	4-primer	19	antisense	CAGATCTGTGTACATTTCCC	X14805 91
IL-24 CT	383 241	double sense	20	sense	GGGTCCGCTCTCCATAG	A02137
IL-25 CT	383 241	double sense	20	antisense	GGGTCCGCTCTCCATAG	M28079
IL-26 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-27 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-28 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-29 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-30 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-31 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-32 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-33 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-34 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-35 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-36 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-37 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-38 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-39 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-40 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-41 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-42 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-43 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-44 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-45 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-46 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-47 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-48 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-49 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-50 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
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IL-52 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
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IL-55 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
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IL-66 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-67 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-68 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-69 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-70 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-71 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-72 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-73 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-74 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-75 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-76 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-77 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-78 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-79 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-80 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-81 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-82 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-83 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-84 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-85 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-86 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-87 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-88 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-89 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-90 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-91 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-92 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-93 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-94 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-95 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-96 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-97 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-98 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079
IL-99 CT	383 241	double sense	20	antisense	CGGTCCGCTCTCCATAG	M28079
IL-100 CT	383 241	double sense	20	sense	CGGTCCGCTCTCCATAG	M28079

FIGURE 1

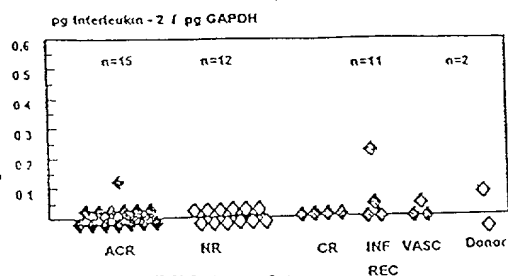


FIGURE 2A

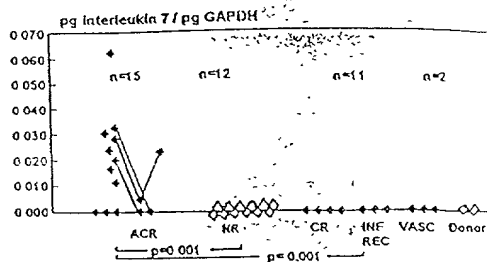


FIGURE 2B

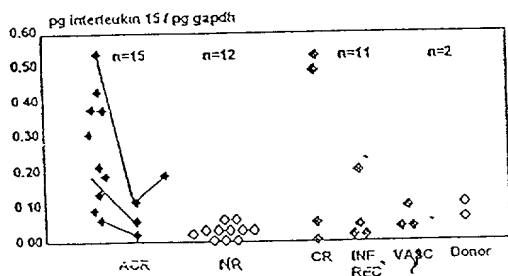


FIGURE 2C

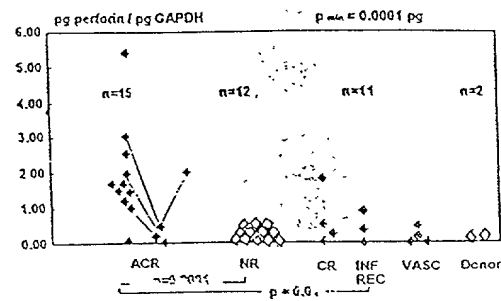


FIGURE 2D

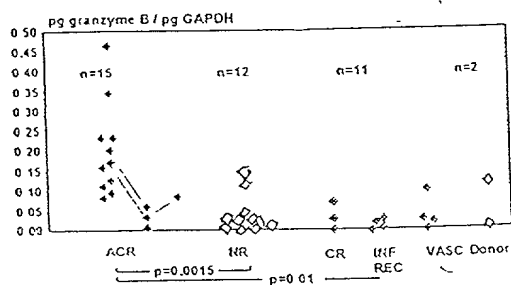


FIGURE 2E

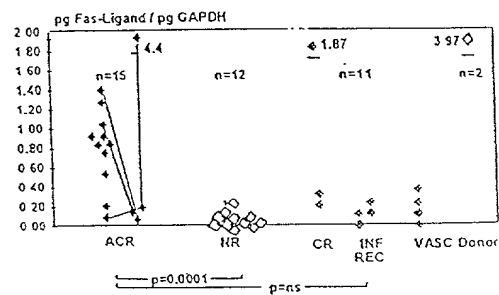


FIGURE 2F

2020070207060

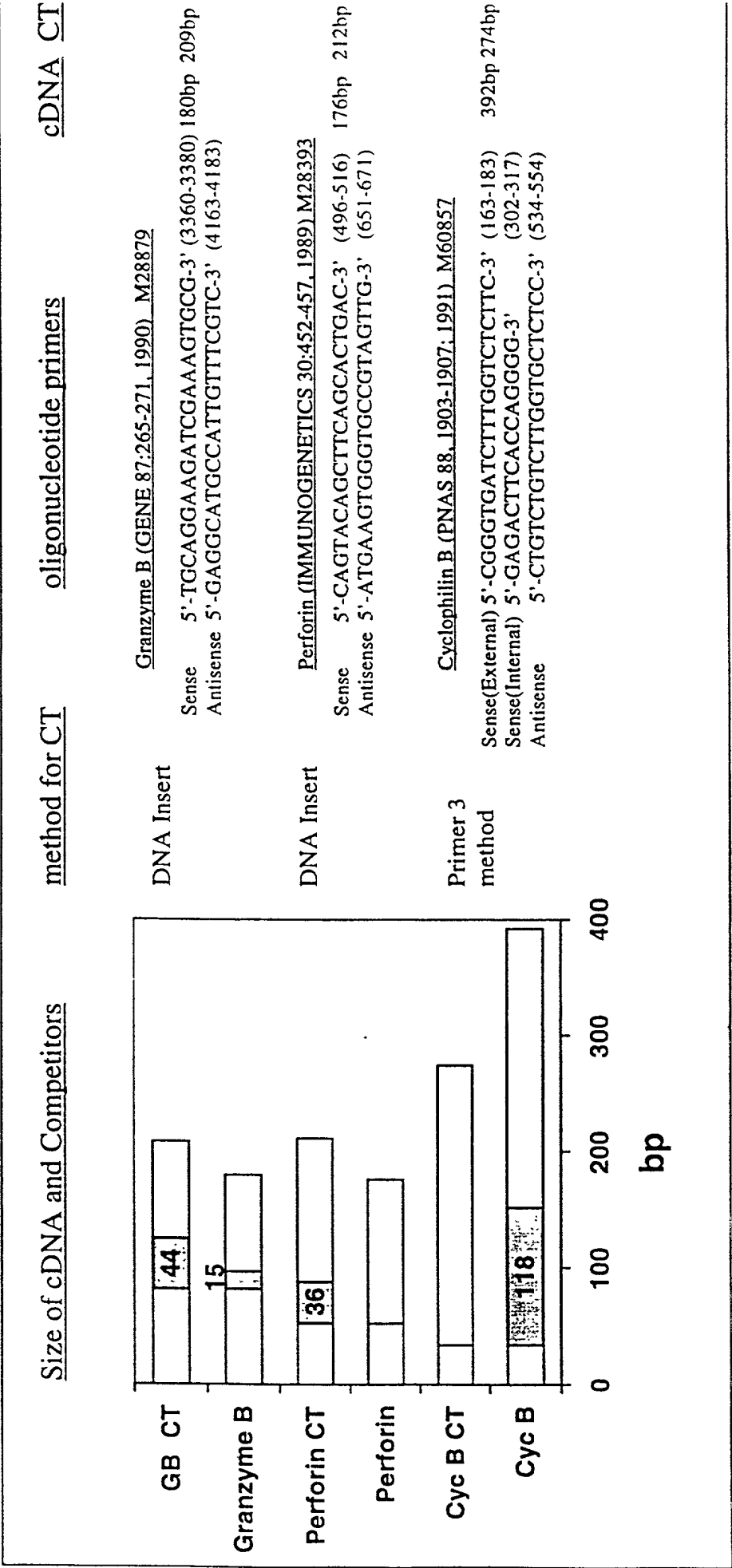


Figure 3

## A. Perforin mRNA

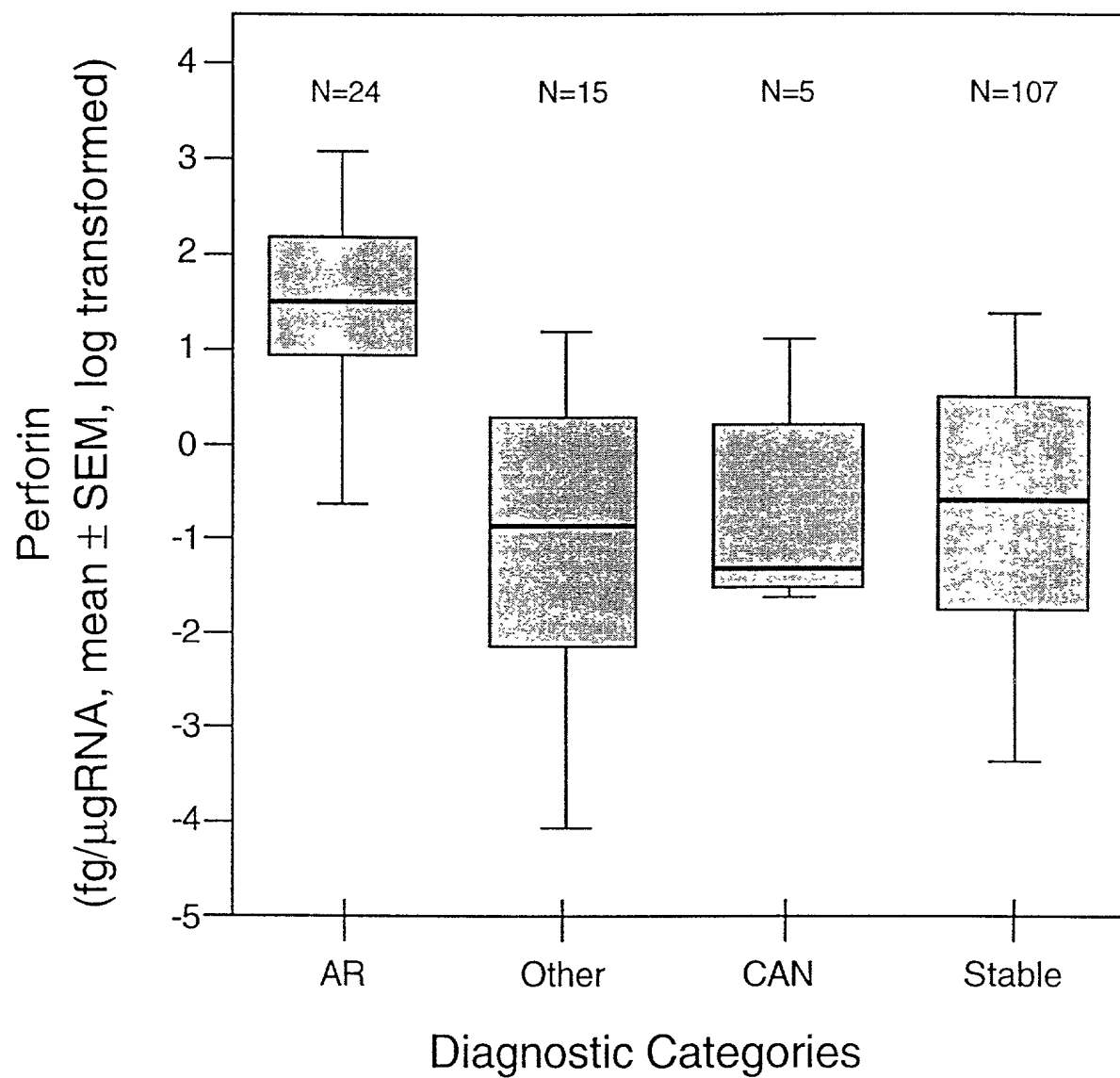


Figure 4A

## B. Granzyme B mRNA

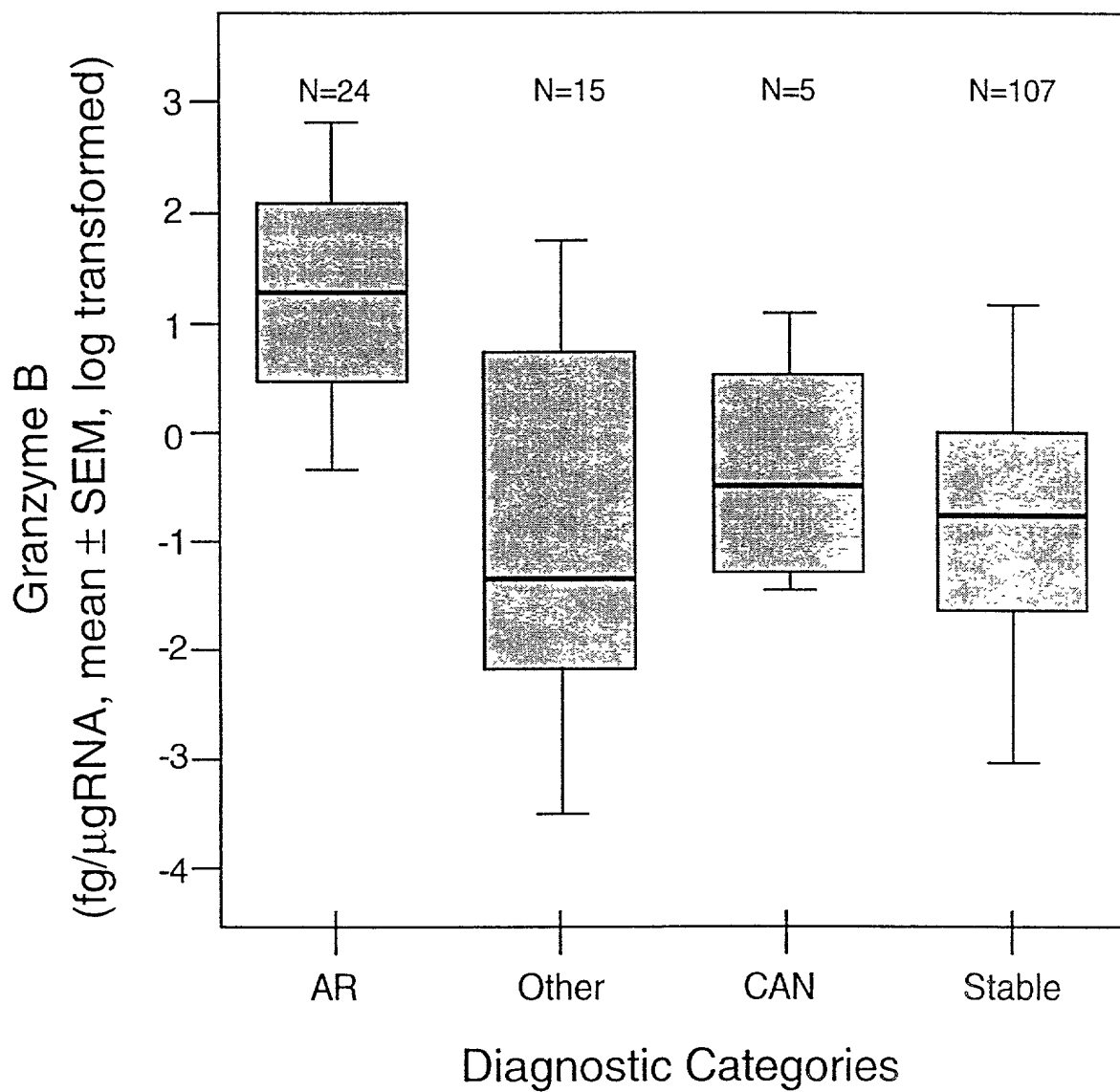


Figure 4B

## C. Cyclophilin B mRNA

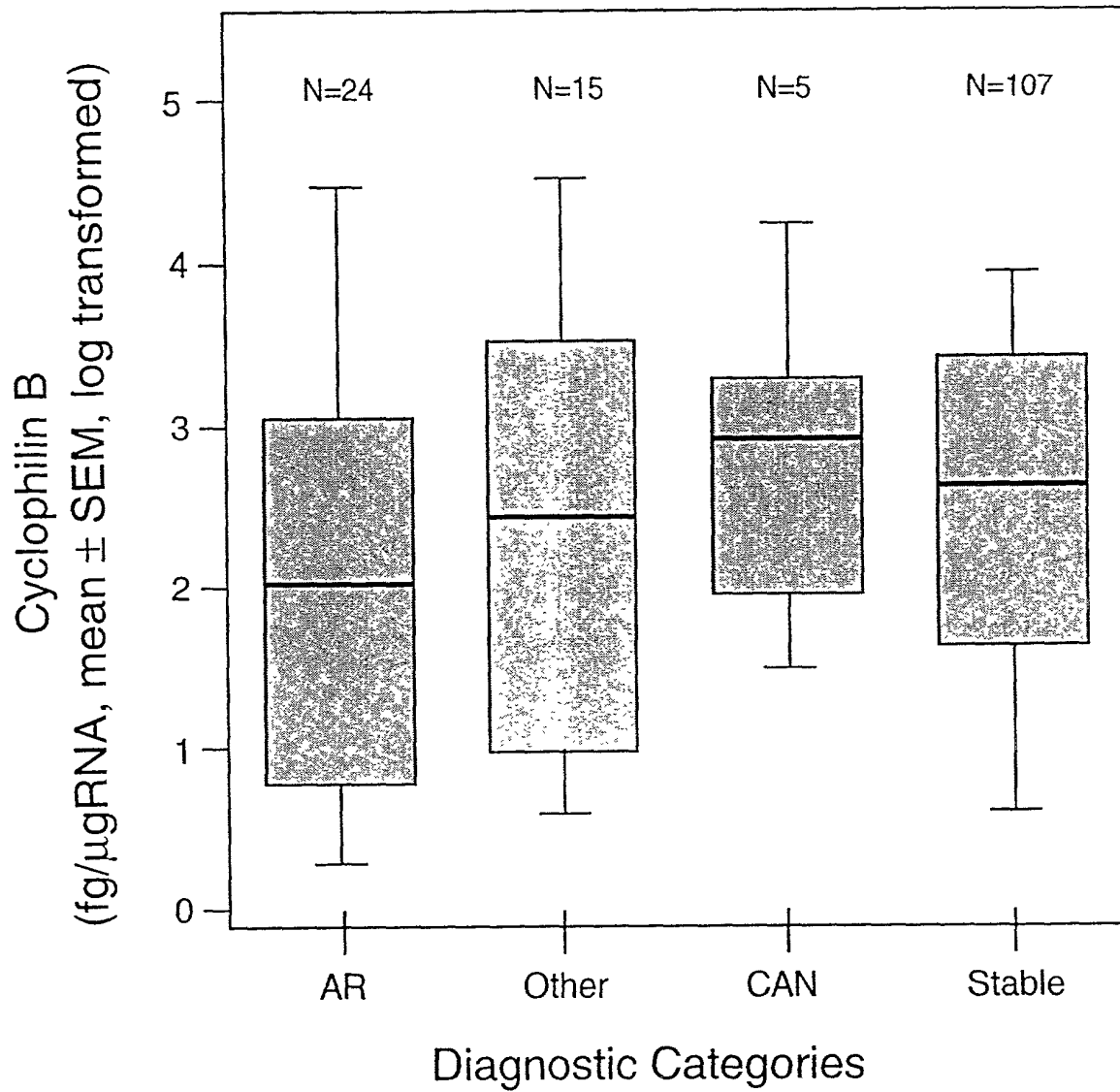


Figure 4C

# A. Perforin mRNA

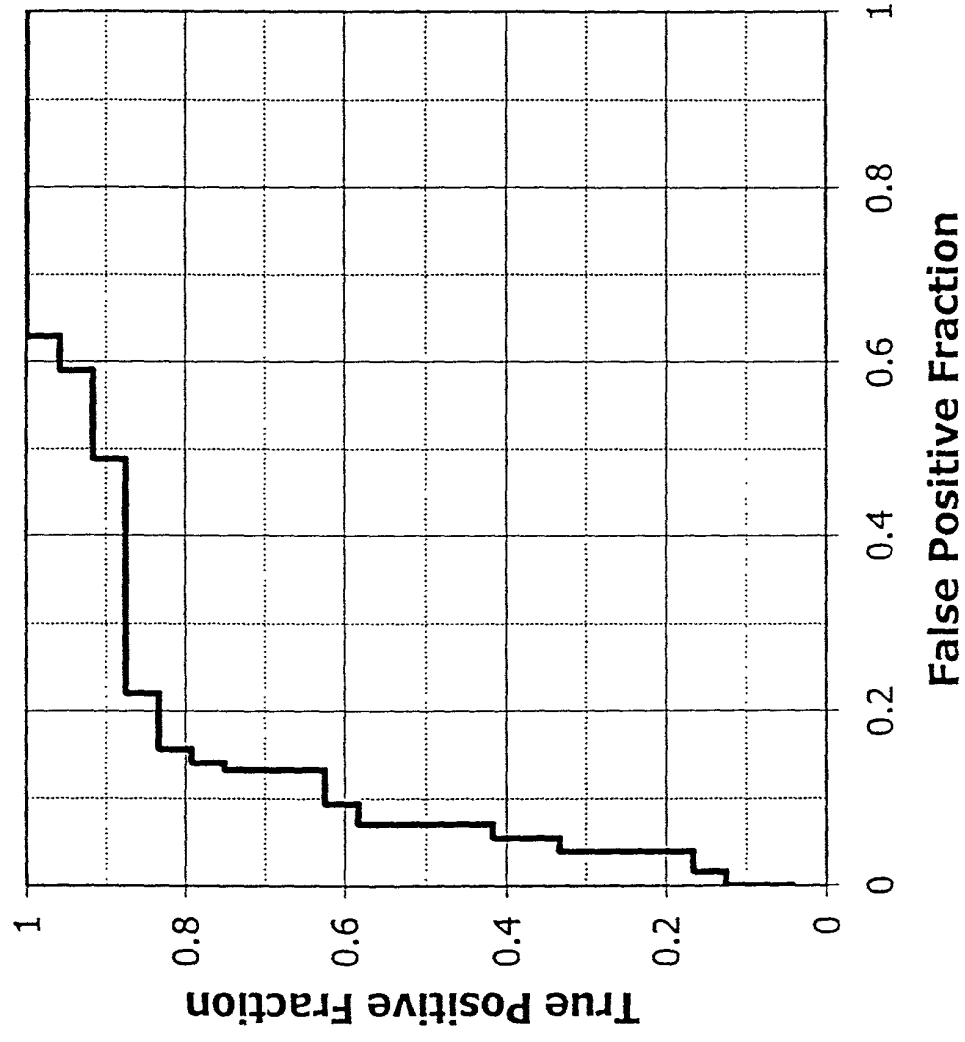


Figure 5A

## B. Granzyme B mRNA

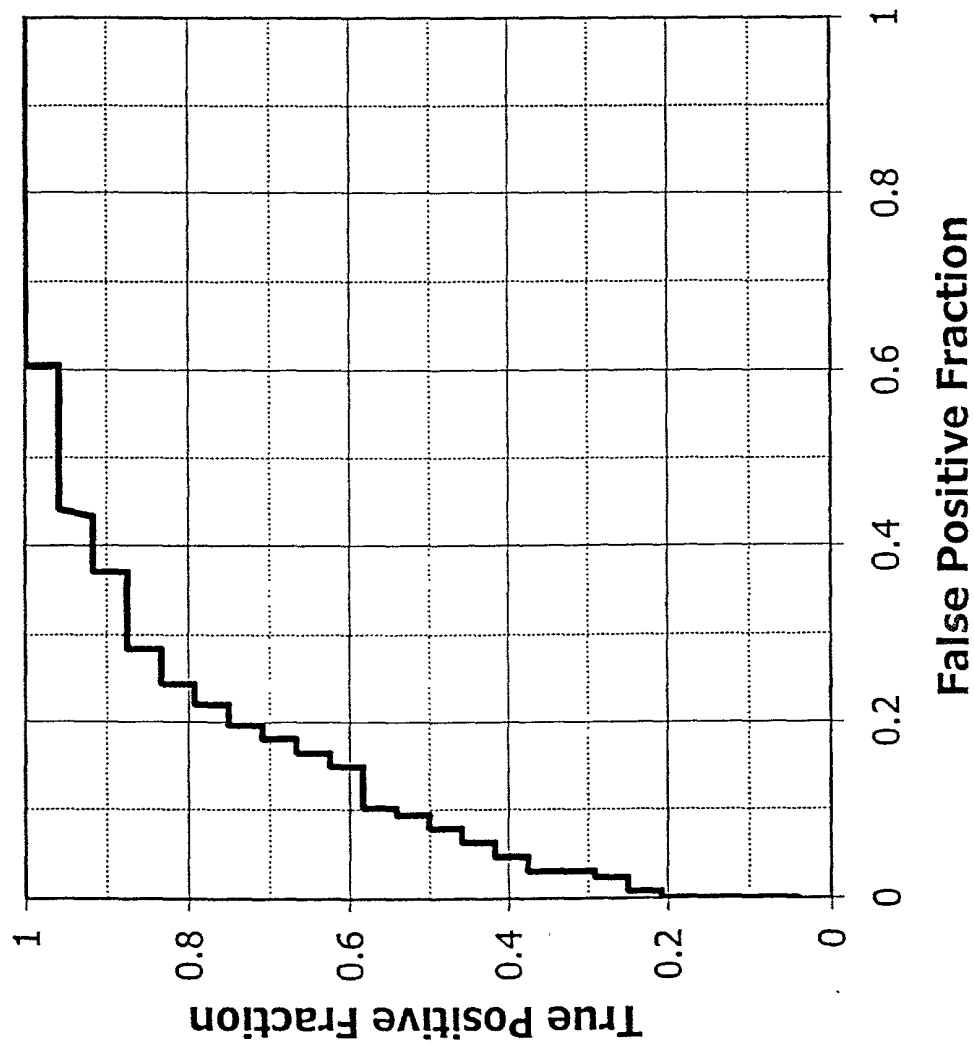


Figure 5B



## C. Cyclophilin B mRNA

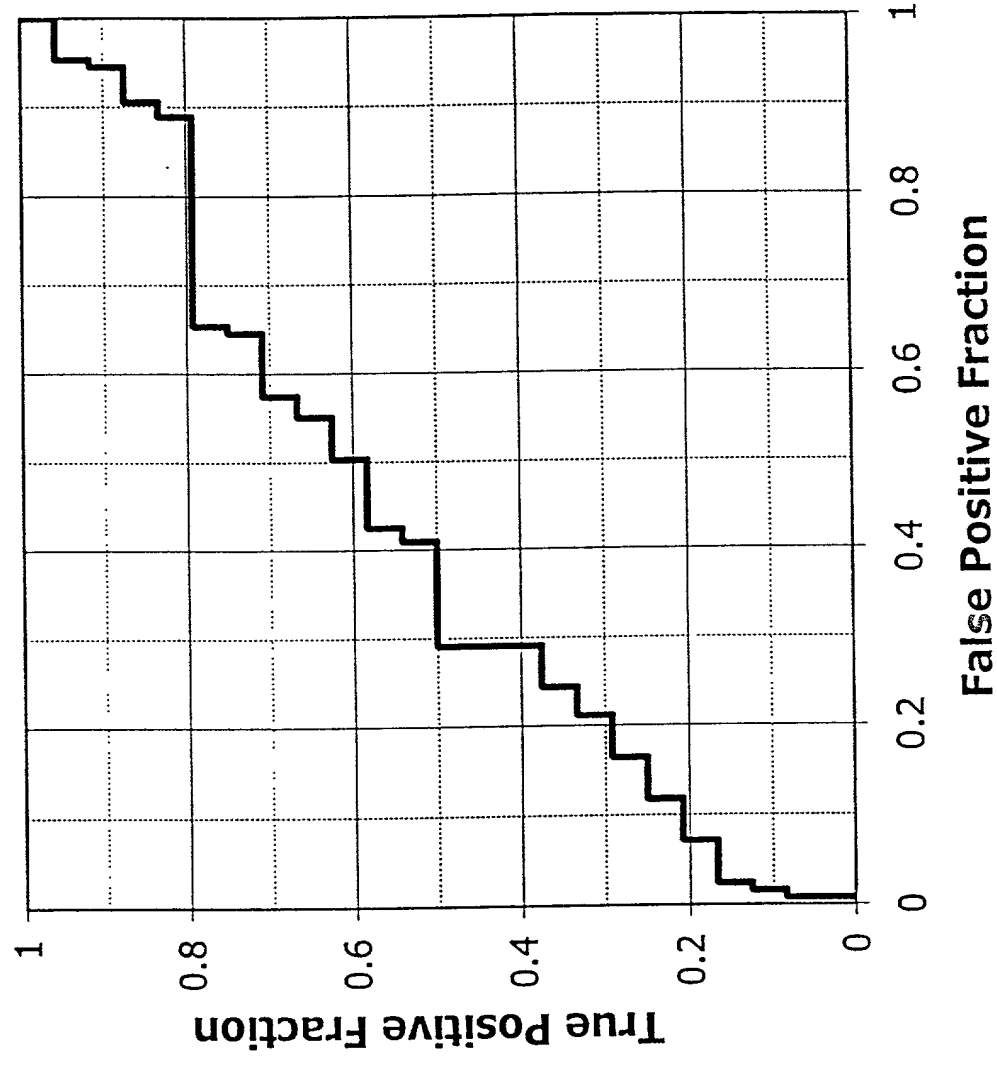


Figure 5C

## A. Perforin mRNA

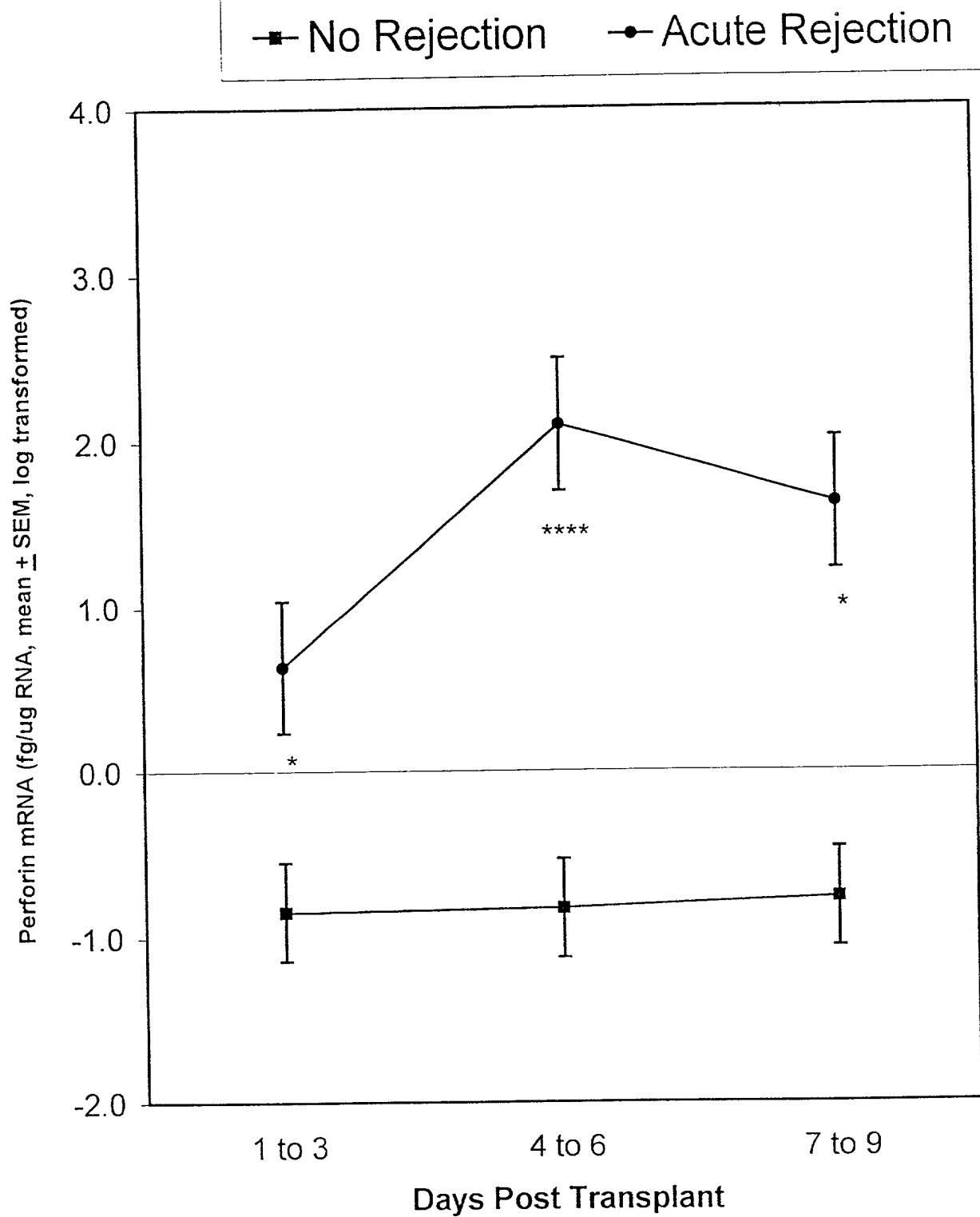


Figure 6A

## B. Granzyme B mRNA

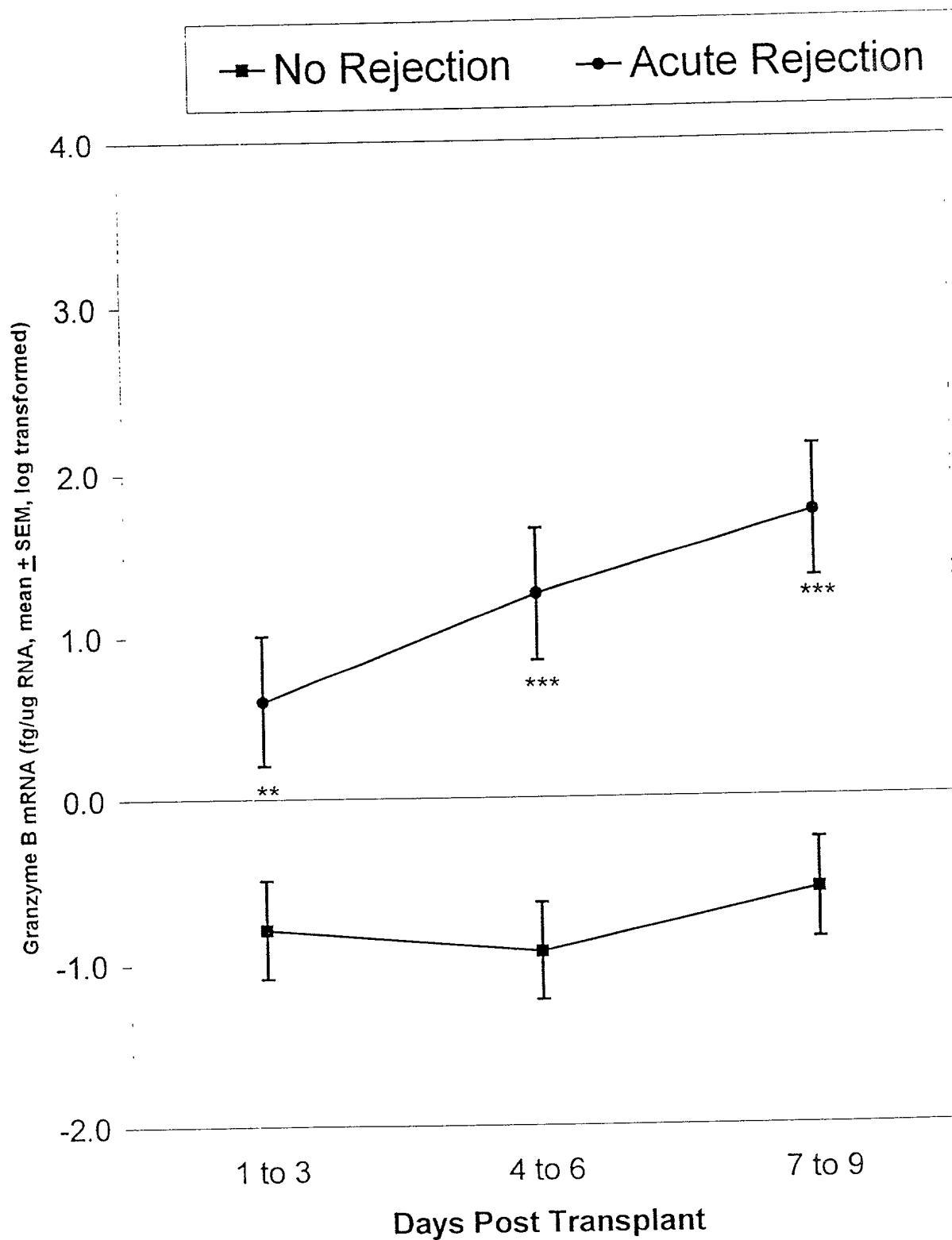


Figure 6B

## C. Cyclophilin B mRNA

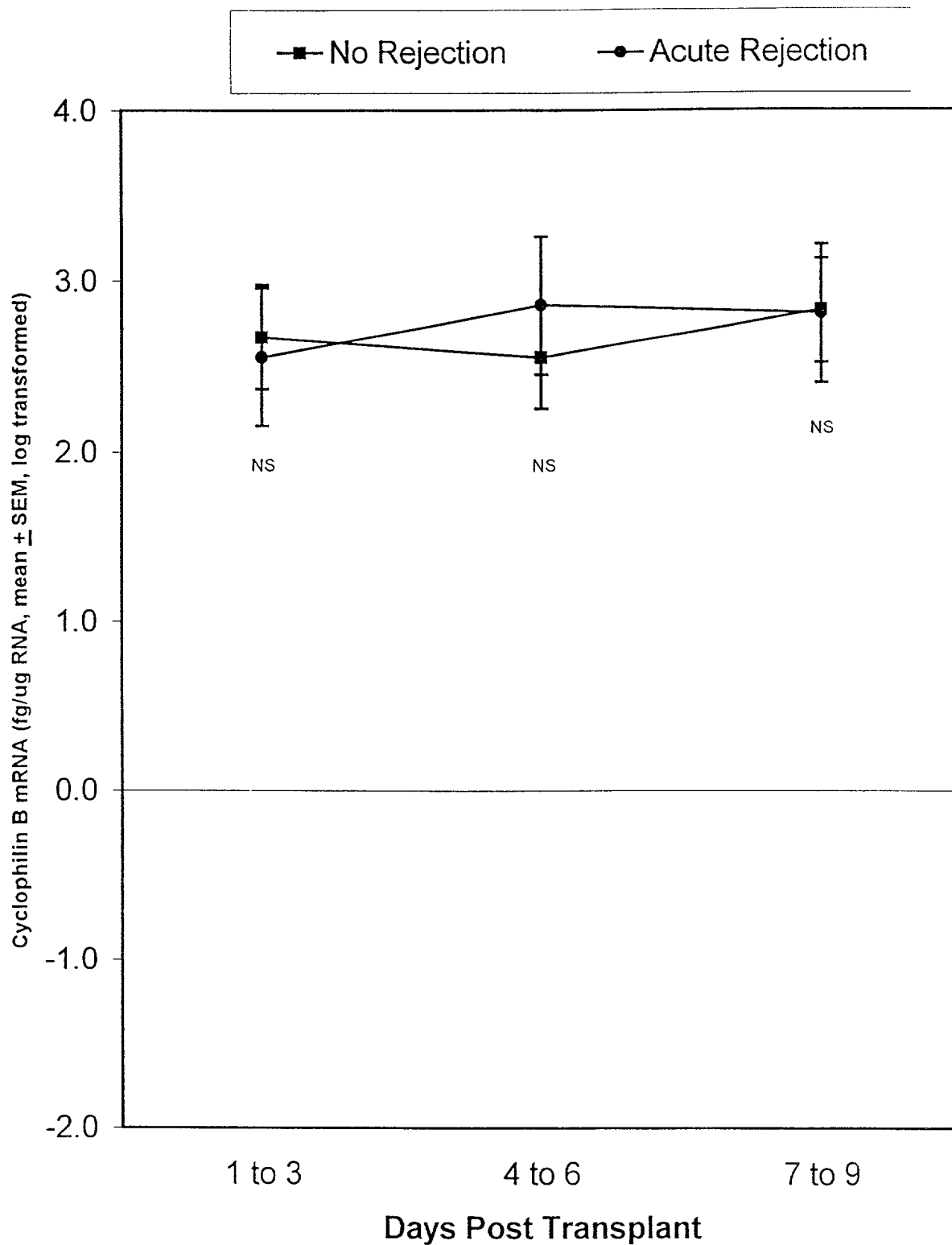
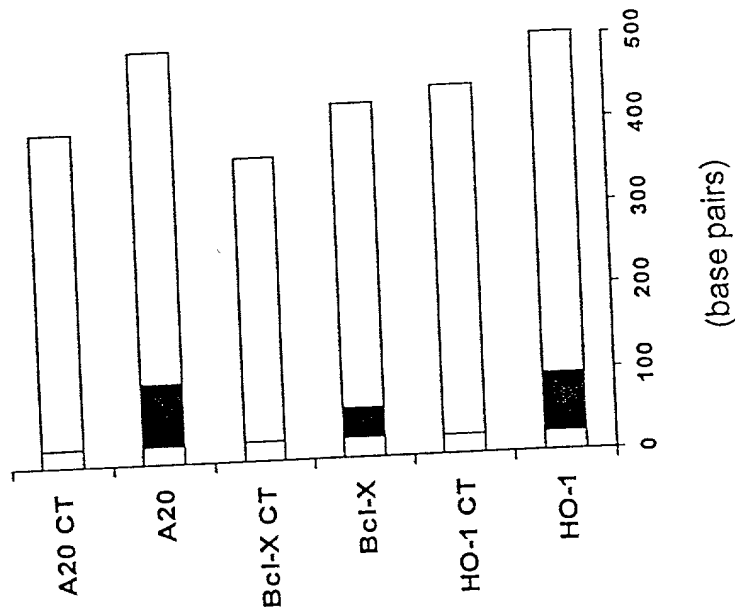


Figure 6C

cDNA C1

oligonucleotide primers

Size of cDNAs and competitors



**A20 ( J Biol Chem 1990; 265: 14705-8 ) M 59465**

sense(external) 5'- TTT GAG CAA TAT GCG GAA AGC -3' [33-53]

sense(internal) 5'-CAT GCA CCG ATA CAC ACT-3' [126-143]

antisense 5'- AGT TGT CCC ATT CGT CAT TCC - 3' [491-511]

400

497

**Bcl-X<sub>L</sub> ( Cell 1993; 74: 597-608 ) Z 23115**

sense(external) 5'- CAG AAG GGA CTG AAT CGG AGA TGG A -3' [247-270]

sense(internal) 5'-CCG CGG TGA ATG GAG CCA CTG-3' [322-342]

antisense 5'- CTA GGT GGT CAT TCA GGT AAG TGG C - 3' [646-669]

361

425

**Heme oxygenase-1 (Eur J Biochem 1988; 171: 457-61 ) NM 002133**

sense(external) 5'- AGG AGA TTG AGC GCA ACA AG - 3' [268-288]

sense(internal) 5'-GGA GCA GGA CCT GGC CTT CTG G -3' [347-368]

antisense 5'- GCT CTG GTC CTT GGT GTC AT - 3' [748-768]

502

42

Figure 7

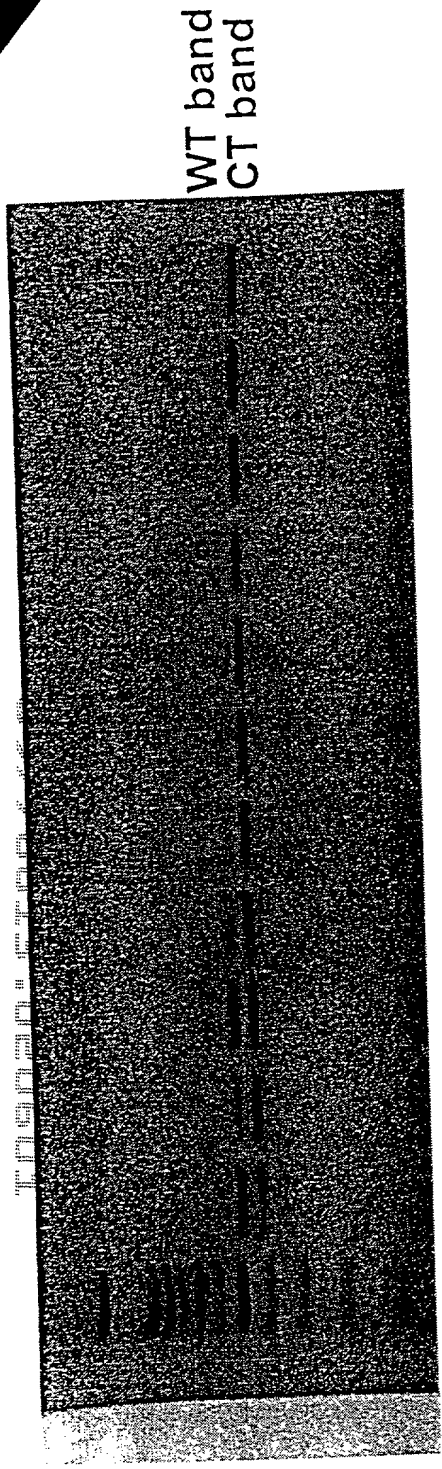


Figure 8A

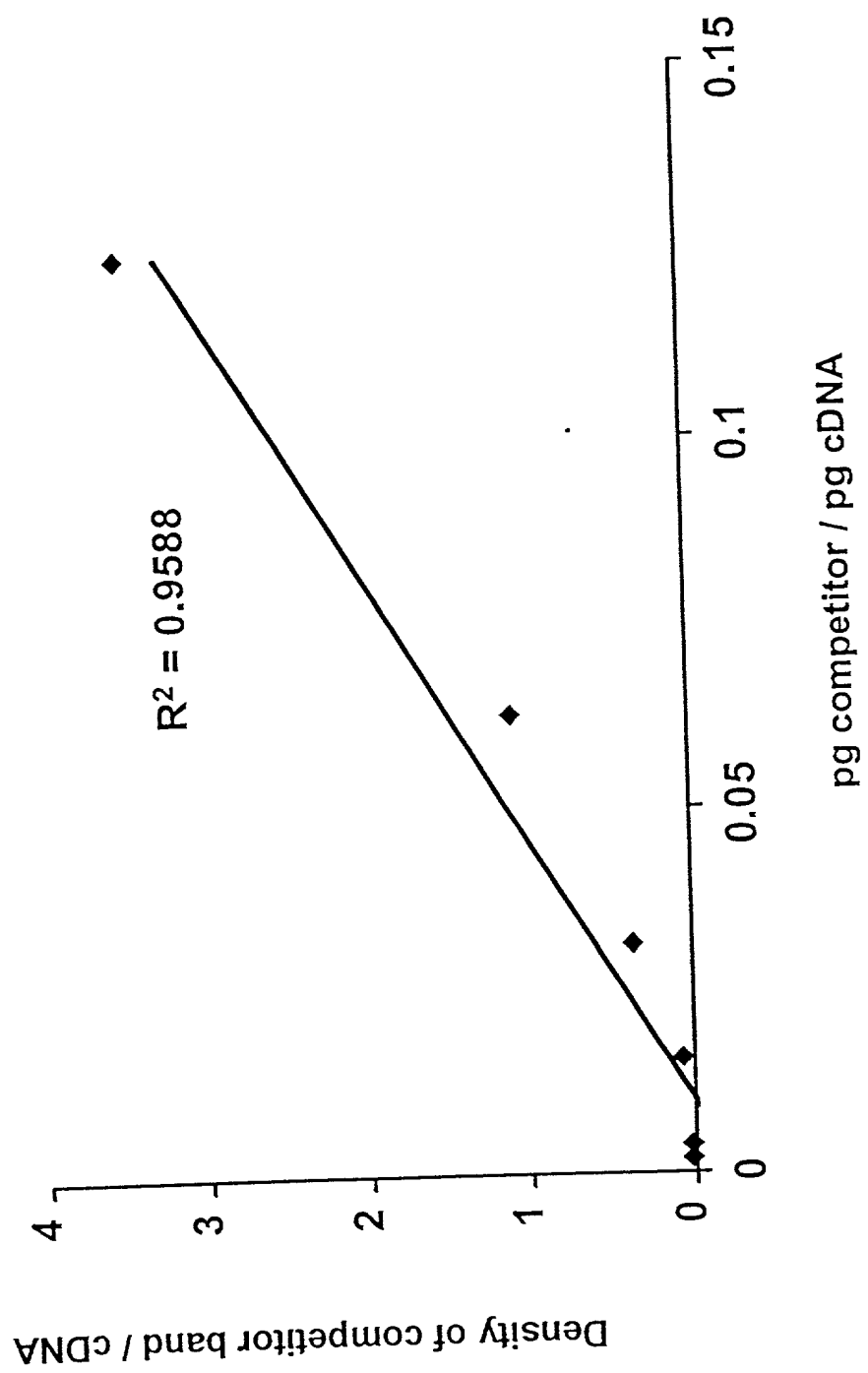


Figure 8B

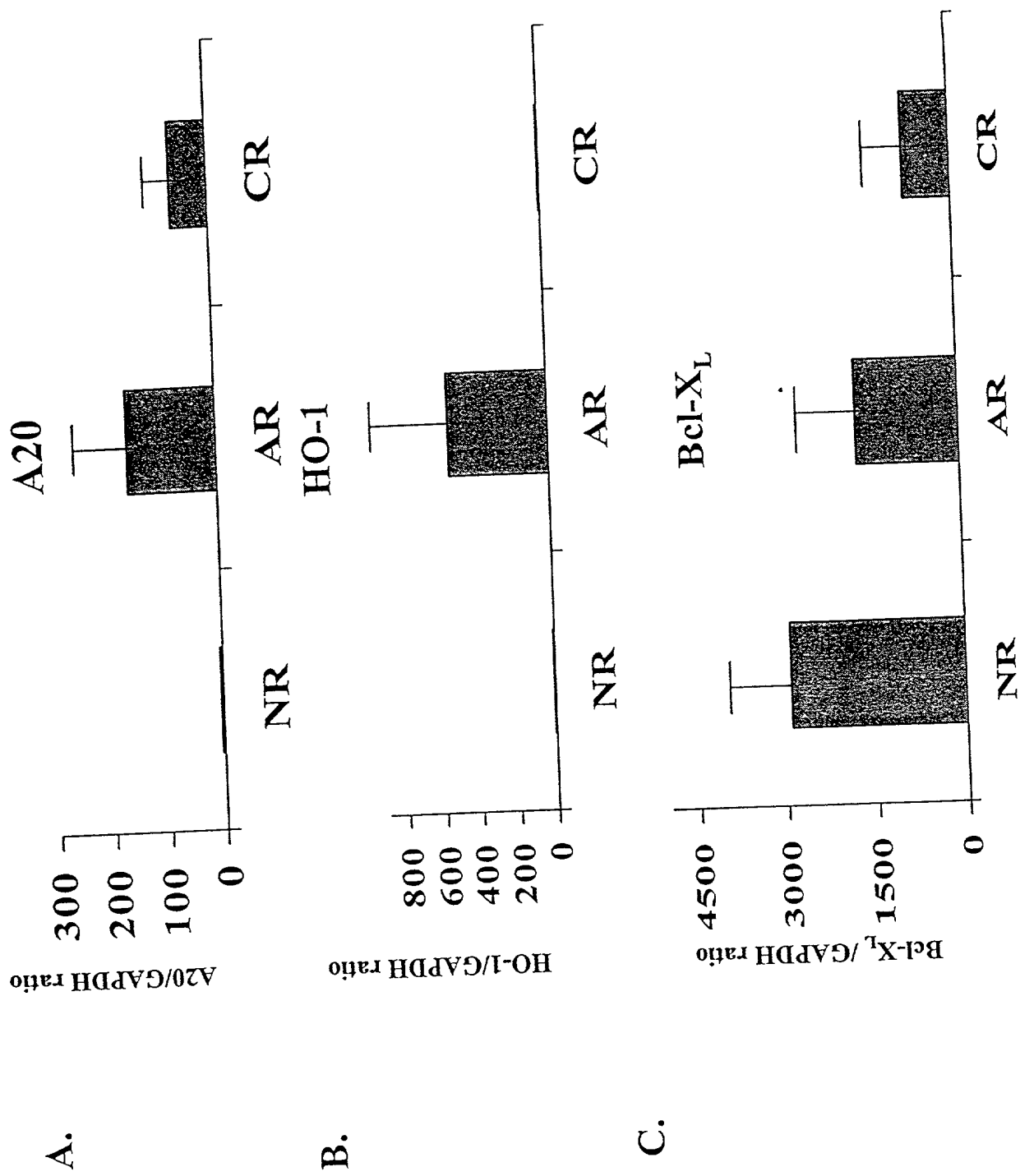


Figure 9

Figures 10 A - C

# A20 protein is localized in endothelial & infiltrating cells of rejected graft

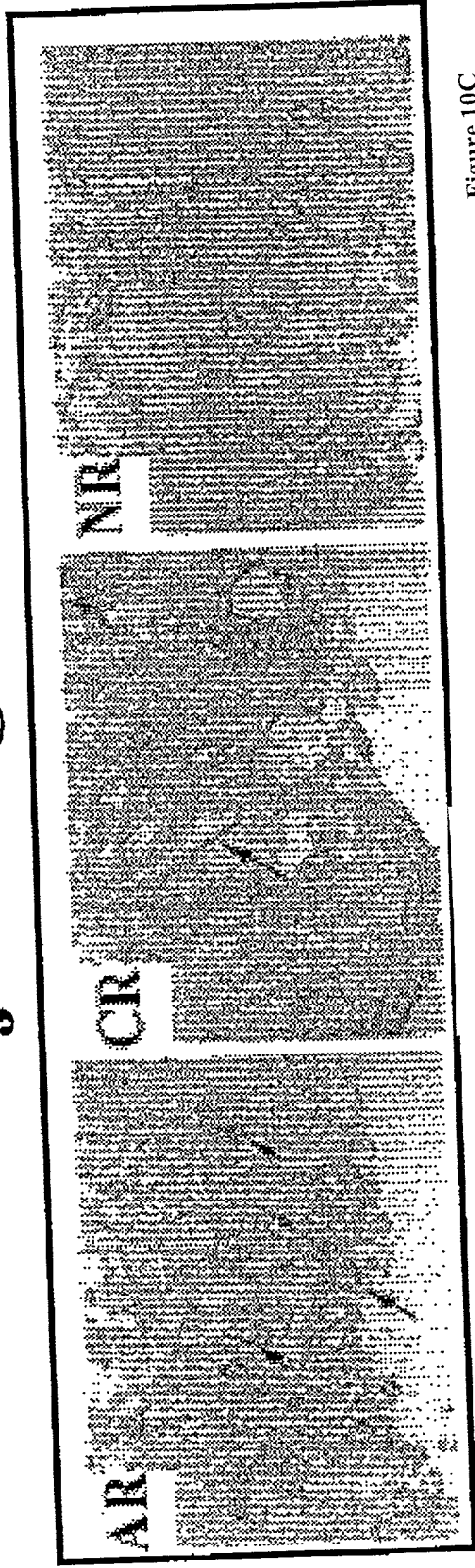


Figure 10C

Figure 10B

Figure 10A

A20  
endothelial  
infiltrating

+

+

+

+

-

-



Figures 10 D - F

# HO-1 protein is localized in endothelial & infiltrating cells of rejected graft

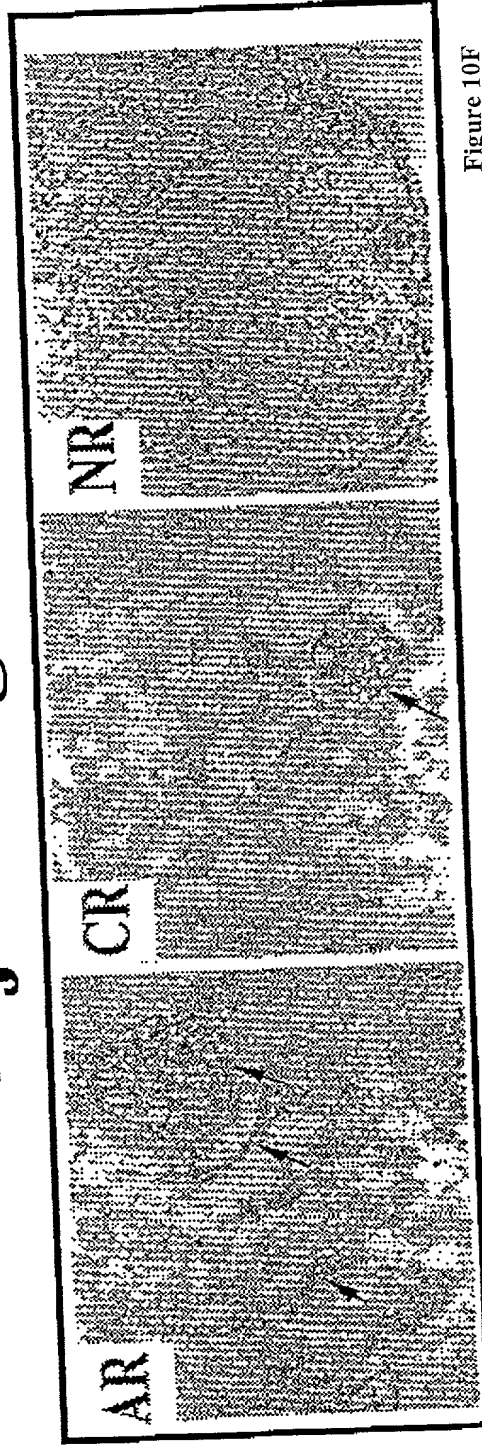


Figure 10F

Figure 10E

	AR	CR	NR
<u>HO-1</u>	acute rejection	chronic rejection	nonrejection
endothelial	+	-	-
tubular	+	-	-
infiltrating	+	-	-

Figure 10D

Figures 10 G - I

# Bcl-X<sub>L</sub> protein is localized in endothelial cells

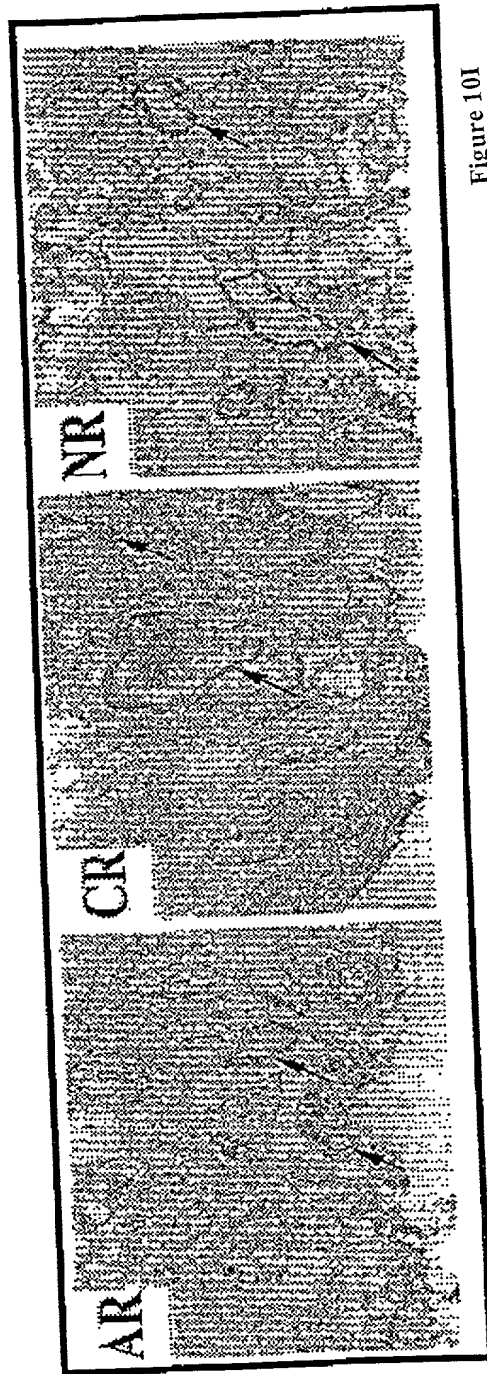


Figure 10G

Figure 10H

Figure 10I

	AR	CR	NR
	acute rejection	chronic rejection	nonrejection
<u>Bcl-X<sub>L</sub></u>	+	+	+
endothelial			